User Manual

GRX-950 *and*

GRX-950 Li

TABLE OF CONTENTS

INTRODUCTION 3

BASIC SET-UP 4

TURNING ON YOUR GRX-950 7

PRECAUTIONS 8

FREE WHEEL MODE 9

GENERAL BATTERY CARE 10

BATTERY INFORMATION FOR GRX-950 LI ONLY 12

BATTERY INFORMATION FOR THE GRX-950 SEALED LEAD ACID BATTERY ONLY 13

ALIGNMENT SYSTEM 14

OVERALL TROLLEY MAINTENANCE 15

TROUBLE SHOOTING 15

WARRANTY/SPARE PARTS/CONTACT CARTTEK 17

INTRODUCTION

Thank you for purchasing the Cart Tek GRX-950 golf trolley. Your Cart Tek trolley cart was thoroughly quality control checked and road tested before being shipped to your address. We do everything possible to assure that your trolley is in perfect working order upon arrival. Should you have any issues or questions about the performance of your trolley, please contact us at sales@carttek.com or 541-633-4308.

Please read this manual carefully before use. After unpacking please keep the carton and all internal sections in safe storage. In the unlikely possibility that you need to return the whole unit due to a defective component, you will need to repack the unit in the original manner to ensure safe and secure transit. Check that all components are included in the package –

- Main Trolley frame
- Drive wheels
- Battery, complete with battery bag and cable
- Battery charger
- Accessories
- User Manual

Please note that our design and manufacturing policy is aimed at continuous improvement, this can result in changes without notice to the specifications contained in our websites and in this manual.

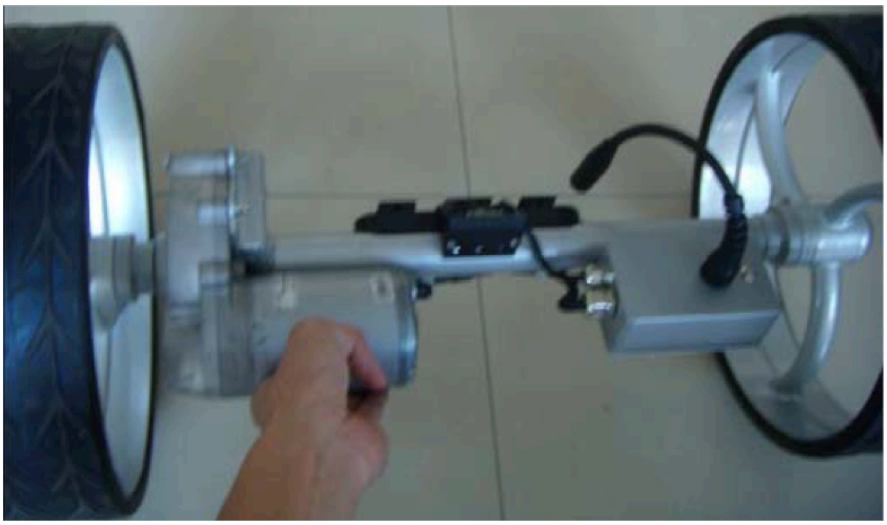
QUICK TIP

After unpacking the trolley and while reading this manual, place the battery on charge while you assemble the unit. Plug battery into charger and charger into power source. The battery may be delivered with a charge but you should verify a full charge before using the trolley for the first time.

BASIC SET-UP

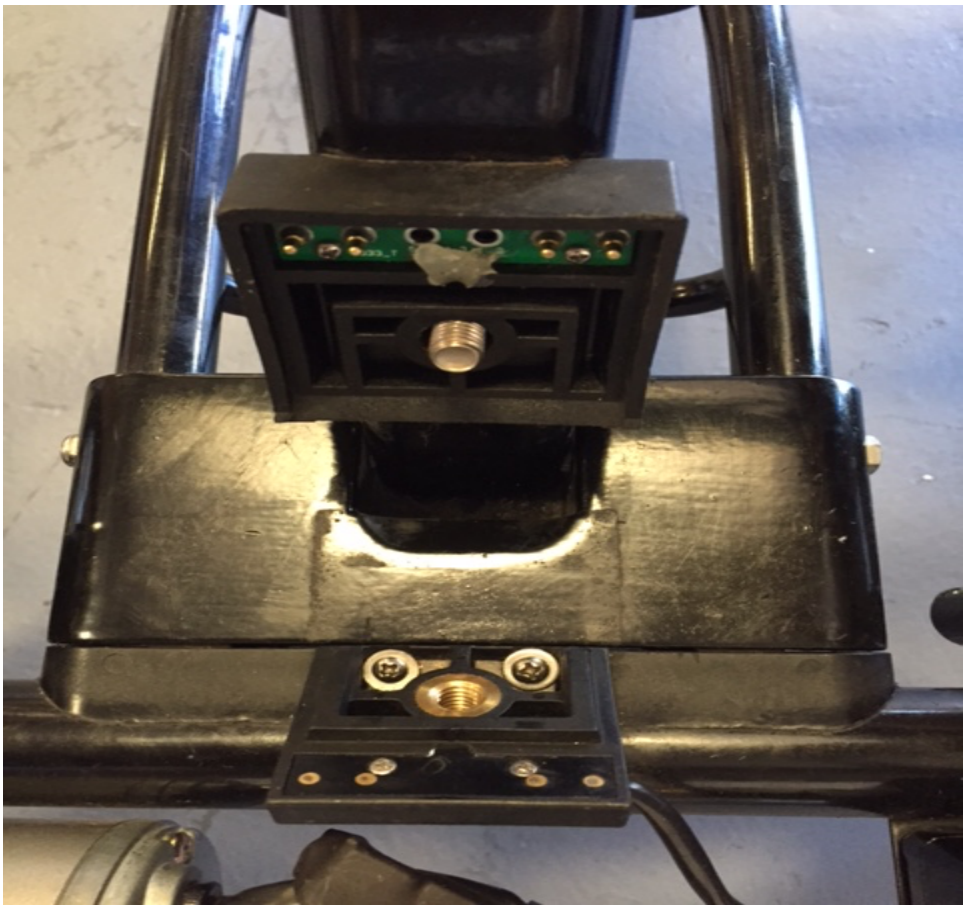
- Remove all components from carton. Note any damage with carrier.
- Install the two large drive wheels. The arrow design on the tires should face forward. Depress knob on inside wheel hub to fully seat wheel onto axle drive collars. The 4 metal studs should fully insert into the holes on the drive collar.

- Arrange Axle assembly with drive motor to your left.



- Place trolley frame forward of the axle assembly as shown. Align mounting grooves and slide frame onto axle assembly.

- Raise Handle base to engage electric contacts with axle assembly. Tighten locking nut (black ball). The locking nut must be tightened before every round.



- Place golf bag onto the trolley, making sure to balance the weight of your golf bag equally “side to side”.
- Secure golf bag with bungees. It is important that both top and bottom bag straps are tight and your bag is firmly secured in the bag rests.
- Place SLA or LI battery in trolley frame.
- Adjust upper handle to desired height. Tighten locking nut (black ball) to secure handle in upright position. The locking nut must be tightened before every round.

TURNING ON YOUR GRX-950

On the right side of the axel next to the right wheel is the Electronic Control Unit. It is a rectangular shaped box with an LED light. The ECU LED indicates the status of your Trolley.

- Turn speed knob back counter clockwise to the stopped position.
- Connect battery cable to cart by depressing the lock on battery cable.
- When initially plugging in your battery if you see a flashing Red Green LED on the ECU LED your speed knob is not at zero. Turn speed knob back to zero.
- Trolley is ready to go. Turn speed knob forward to desired speed. To stop trolley turn speed knob back to zero.

Alternatively, the trolley may be controlled by using the push button at the end of the handle. Simply push the button while the trolley is moving and the trolley will stop. Push the button again to resume at the same pace.

Distance Control Function: when the trolley is stopped, press and hold the button at the end of the handle until the ECU light flashes rapidly. Release the button, the GRX-950 will move forward for 10 seconds at the currently set speed. (Distance control function will not work when cart is stopped via the speed dial.)

ECU LED Designations

Plug in Battery with speed at 0	Flashing Green LED
Plug in Battery with speed not at 0	Flashing Red Green LED
Cart stopped with on off button	Flashing Green LED
Distance Control Function	Rapid Green Flash LED
Low Voltage	Solid Red LED

PRECAUTIONS

- ✓ Keep upper handle in down position when placing the golf bag on and off the trolley.
- ✓ Do not allow your GRX-950 to tip backwards onto the on/off switch.
- ✓ Both locking nuts must be tightened before every round.
- ✓ The GRX-950 is design uses single direction clutches and is easily pushed with out engaging the motor. The trolley will easily roll down hill, park trolley across the slope.
- ✓ If you need to pull the trolley backwards for an extended distance, disconnect the battery and pull the main drive wheels out to the free wheel mode groove on the axel.
- ✓ For best performance heavy cart bags are recommended. If you use a carry bag or stand bag you may need to add weight. (see below)
- ✓ Consider the all-around weight distribution of your golf bag. Ensure the bag is balanced evenly side-to-side. Uneven weight distribution may lead to "tracking errors" i.e. too much weight on the right side will cause trolley to veer to the left.
- ✓ The front wheel should stay grounded during play. If on steep inclines your trolley's front wheel comes off of the ground, maneuver front wheel down with handle.
- ✓ If you are having issues keeping the front wheel down on the ground, increase the weight over the front wheel. Consider adding a water bottle full of sand inside a low pouch in your golf bag. Equally distribute the weight, use the center pouch or equal weight added to each side pocket.
- ✓ During play, minimize the drain on the battery by avoiding taking the GRX-950 trolley into the rough.

QUICK TIP

When first using your trolley, practice in a large open area. Take the time to practice controlling trolley with the start stop switch on handle and using the distance control function.

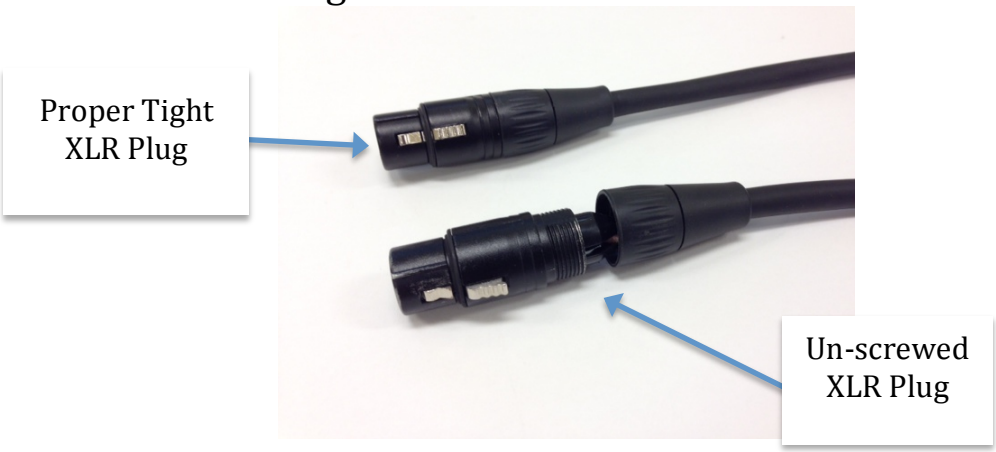
FREE WHEEL MODE

In the event, that you have a loss of power or have a need to pull the GRX-950 backwards, you must put the Trolley into “Free Wheel” mode. For “free wheel” mode depress button on hub and pull wheels out approximately 1/4 of an inch, making sure the wheels engaged into the axel. The metal prongs on the inside wheel hub will show and will **not** be engaged with the drive collar. You can now safely pull cart backwards. CAUTION: Excessive speed and sharp turns may disengage the wheels when pulled backwards.

GENERAL BATTERY CARE

- Only charge battery with the charger that came with your Trolley.
- When not in use, disconnect charger from power source.
- Do not charge hot batteries. Batteries must be at ambient temperature before charging.
- Do not expose the battery charger to rain, damp or hot conditions.
- Do not cover equipment or obstruct ventilation. Do not expose to direct sunlight.
- Do not charge more than one battery pack simultaneously.
- Keep batteries, battery charger and cables away from combustible materials.
- Do not store or charge batteries on a concrete surface.
- Always ensure battery is connected to charger when connecting AND disconnecting charger from power source.
- Your battery charger should not be left plugged into the power source when not in use.
- Do pay attention to the charger lights and verify that the charger flips to orange when a depleted battery is plugged in. (Depleted meaning you played golf.)
- To maximize battery life, charge your trolley battery immediately following your round of golf. Charge your battery after any use, even if you only played 9 holes.
- Store your battery at normal room temperature. Avoid freezing temperatures.
- Do not store or charge battery on concrete surface.

- At the plug end of the battery cable check to see that the cable has not become loose or "unscrewed" from the plug. Tighten compression ring if needed.
- Take precautions and be careful to not drop the battery. The battery casing could crack and the subsequent battery life will be severely compromised.
- Do not strain or pull on battery cable. Always push silver slide latch on round plug when inserting and removing from cart or charger.
- Your battery is designed to power your GRX-950 through a minimum of 18 to 27 holes. You can extend the length of play by avoiding long rough.
- If during play, the LED is solid red, this is an indicator that the power level in the battery is running low.
- At the plug end of the battery cable check to see that the cable has not become loose or "unscrewed". Screw the cable back together if needed.



- Any “looseness” of the XLR plug can cause premature battery failure and poor caddy performance

BATTERY INFORMATION FOR GRX-950 LI ONLY

Your GRX-950 Trolley comes with a 24 volt, 7.5 Ah Lithium Ion battery.

Whenever possible we ship your battery fully charged. Before trying to operate your GRX-950Li, please verify that the Li battery is fully charged. Plug your battery into the charger; and then plug your charger into the power source. Your trolley is ready for play when your charger LED flips from orange to green. It is likely that your battery will need very little charge time before being ready for play the first time. Normal charge time is 3-4 hours *after a full round of golf.*

- The charger has a green LED light when inserted into a power source if it does not have a battery connected to it.
- The LED on the charger will turn green when battery is fully charged. A full charge usually takes between 3-4 hours. Charge the battery in the evening, unplug in the morning. Do not leave your battery on the charger for extended periods; do not leave the charger plugged into power source.
- During periods of inactivity (i.e. winter storage) re-charge your battery overnight every 12 weeks. Battery life is 800 to 1000 charging cycles, depending on course conditions.

BATTERY INFORMATION FOR THE GRX-950 SEALED LEAD ACID BATTERY ONLY

Whenever possible we ship your battery fully charged. Before trying to operate your GRX-950 please verify that the battery is fully charged. Plug your battery into the charger; and then plug your charger into the power source. Your trolley is ready for play when the Charging LED flips from RED to off. It is likely that your battery will need very little charge time before being ready for play the first time. Normal charge time is 6 – 8 hours *after a full round of golf.*

- The charger has 2 LED's. The power LED is orange when inserted into a power source if it does not have a battery connected to it. Review charger instructions for more information.
- The Charging LED will turn RED when a battery is charging. A full charge usually takes between 6- 8 hours. At full charge the Power LED is green and the charging LED is off. Charge the battery in the evening, unplug in the morning. Do not leave your battery on the charger for extended periods; do not leave the charger plugged into power source.
- Provided your next golf game is within 3 weeks your battery is ready to go and there is no need to top off.
- During periods of inactivity (i.e. winter storage) re-charge your battery overnight every 30 to 45 days. Battery life is approximately 150 charging cycles, depending on course conditions.
- Check Battery cable regularly at battery terminals for any corrosion, clean if necessary.

ALIGNMENT SYSTEM

If you have issues with your trolley not going straight you may have to adjust the tracking. Verify that the trolley has a tracking issue without a bag before making any adjustments. If you only have a tracking issue with the trolley when your golf bag is on the trolley adjust the weight in the golf bag.

To adjust the alignment, use a 4 MM Allen Wrench.

If your trolley veers to the left, face the front wheel and turn the right allen key clockwise and the left allen key counter clockwise.

If your trolley veers to the right, turn the left allen key clockwise and the right allen key counter clockwise.

OVERALL TROLLEY MAINTENANCE

Keep your trolley clean. Wipe off dirt and grime with a soft cloth. Do not spray trolley with water.

The electrical contacts should be periodically cleaned with electrical contact cleaner, mineral spirits or rubbing alcohol. Open up the lower black locking ball. Lower the handle to expose the electrical contacts. Inspect the black contact boxes to ensure they are tight on the axel and the handle. On the handle side, inspect the electrical pins that they are straight. Gently push the electrical pins and ensure that the easily pop back into position. Inspect the axel side electrical box and determine that the copper circles are intact. Steel wool or very fine sandpaper can be used to break surface glaze if needed. Liberally spray both the pins and circles with electrical contact cleaner. Let cleaner sit for several hours. Wipe off residual. Reconnect caddy handle and tighten black locking ball.

Always tighten lower locking nut before every round.

TROUBLE SHOOTING

My cart stops and the LED is flashing RED GREEN.

Clean the electrical contacts. The directions are under the maintenance section in this manual.

My trolley has stopped working and I cannot figure out what is wrong. Please call CartTek customer service and have the following information available.

1. When the trolley stopped working, what was the situation?
2. What color was the ECU LED? This is critical information to the troubleshooting process. There are 5 options:
    a. Solid green -Ready
    b. Flashing green -Standby
    c. Solid Red -Weak Battery
    d. Flashing Red -Poor battery or spring pin contact
    e. No Light -Dead battery or lost power connection
    f. Flashing Red Green- Poor spring pin contact
3. The last time you charged your battery did you see the charging light? When you put the battery on the charger now after the caddy stopped working, do you see the red or amber charging light?
4. Were you able to get the caddy to work again? If so what steps did you take?

For Warranty, Spare Parts and Accessories:

Contact Us:

541-633-4308

http://www.carttek.com

Cart Tek Golf Carts

150 SE Logsden St.

Bend, OR 97702

email: sales@carttek.com